

WHAT IS CLAIMED IS:

1. A combustion-engined setting tool for driving fastening elements in a constructional component, comprising a combustion chamber (13); a fuel source (11); a fuel conduit (12) for connecting the fuel source (11) with the combustion chamber (13); at least one metering device (30) arranged in the fuel conduit (12) for metering out a predetermined amount of fuel in form of a n-number of discrete separate portions, with a preset volume of each separate portion remaining constant; and a control device (20) for actuation of the metering device (30).
2. A setting tool according to claim 1, further comprising sensor means (22) for determining parameters of the setting tool and of the environment and for communicating acquired data to the control device (20), whereby the control device (20) determines, for each operation cycle, the n-number based on the determined parameters of the setting tool and the environment.
3. A setting tool according to claim 1, further comprising a counter flow meter (21) associated with the metering device (30) for determining volumes of

metered-out fuel and for transmitting acquired data to the metering device (2) for adjusting a set value of the n-number.

4. A setting tool according to claim 1, wherein the metering device (30) comprises at least one metering chamber (31, 31') having inlet (32) and outlet (33), and closing means (34, 35, 36, 37) for reversibly closing the inlet (32) and the outlet (33), and wherein during one working cycle, the inlet (32) and the Outlet (33) are alternatively and periodically opened and closed n-times.

5. A setting tool according to claim 4, wherein the metering device (30) has plurality of metering chambers (31') arranged annularly about a central axis (40) and having axes (38) thereof extending parallel to each other, wherein the metering chambers (31') are open at opposite ends thereof, and wherein the closing means (34, 35) comprises disc-shape plates having each a passage (39) and rotatable relative to the metering chambers (31'), whereby the opposite open ends of the metering chambers (31') are alternately and reversibly closed by respective disc-shaped plates.

6. A setting tool according to claim 4, wherein the at least one metering chamber (31) is associated with a displaceable body (50, 50', 50'') which changes an inner volume of the at least one metering chamber (31).
7. A setting tool according to claim 3, wherein the counter (21) is formed as an integrated flow meter.
8. A setting tool according to claim 3, wherein the counter (21) is formed as a step counter.
9. A setting tool according to claim 2, wherein the sensor means (22) comprises sensors for determining air pressure, temperature, and air humidity of surrounding the setting tool, air.
10. A setting tool according to claim 6, wherein the metering device is actuated by a solenoid.
11. A setting tool according to claim 10, wherein the solenoid acts on the displaceable body.
12. A setting device according to claim 6, further comprising a drive motor (52) for actuating the metering device (30).

13. A setting device according to claim 12, wherein the drive motor (52) acts on the displaceable body (50, 50', 50").
14. A setting tool according to claim 5, further comprising a drive motor (52) for rotating the disc-shaped plates (34, 35).
15. A setting tool according to claim 2, wherein the control device (20) is formed as a data processing unit for evaluating and processing the acquired parameters.
16. A setting tool according to claim 15, wherein the data processing unit is formed as a microprocessor.